

Top 20 Chemicals with Largest TRI On-site and Off-site Disposal or Other Releases, 2002: Manufacturing* Industries

On-site Disposal or Other Releases																Total On-site Disposal or Other Releases Pounds	Total Off-site Disposal or Other Releases Pounds	Total On-site and Off-site Disposal or Other Releases Pounds
CAS Number Chemical	On-site Disposal to Class I Underground Injection				Other On-site Disposal or Other Releases								Total On-site Disposal or Other Releases Pounds					
	RCRA				Fugitive Air Emissions Pounds	Point Source Air Emissions Pounds	Surface Water Discharges Pounds	Class II-V Wells Pounds	Land Treatment Pounds	Surface Impoundment Pounds	Other Land Disposal Pounds	Subtotal Pounds						
	Class I Wells Pounds	Subtitle C Landfills Pounds	Other On- site Landfills Pounds	Subtotal Pounds														
-- Zinc compounds	277,506	734,078	19,204,153	20,215,737	1,812,145	3,241,435	766,804	136,450	90,405	8,625,635	33,797,307	48,470,182	68,685,919	198,088,412	266,774,330			
-- Nitrate compounds	36,361,785	72,027	26,918	36,460,730	384,556	121,210	201,307,356	87,892	12,766,849	1,322,888	205,218	216,195,967	252,656,697	11,849,823	264,506,520			
-- Copper compounds	166,125	53,060	1,051,610	1,270,795	292,376	339,991	64,800	650,000	30,510	12,086,254	188,518,752	201,982,684	203,253,478	9,338,529	212,592,007			
-- Manganese compounds	9,312,555	313,503	34,742,385	44,368,443	742,518	753,414	6,101,718	1,300,250	660,546	11,773,053	61,965,238	83,296,738	127,665,181	43,016,959	170,682,140			
67-56-1 Methanol	13,958,150	989	452,194	14,411,333	17,136,912	128,683,530	4,352,596	120,901	201,062	378,579	131,657	151,005,237	165,416,570	903,206	166,319,776			
7664-41-7 Ammonia	23,143,538	286	103,155	23,246,979	26,218,845	88,728,294	4,625,956	35,123	1,826,517	590,821	107,716	122,133,272	145,380,251	2,085,376	147,465,627			
108-88-3 Toluene	960,279	1,633	8,457	970,369	23,099,896	39,806,810	19,052	297	77	983	33,183	62,960,299	63,930,667	790,510	64,721,178			
7647-01-0 Hydrochloric acid	8,639	2,000	0	10,639	1,892,491	52,616,216	2,429	0	0	5	72,023	54,583,165	54,593,804	287,773	54,881,577			
100-42-5 Styrene	160,099	74,137	29,691	263,927	10,623,378	36,670,808	3,525	0	0	12	11,964	47,309,687	47,573,614	1,640,787	49,214,401			
110-54-3 n-Hexane	63,613	294	13,905	77,812	17,716,992	26,386,166	4,168	11	49	10	9,583	44,116,979	44,194,791	31,987	44,226,779			
1330-20-7 Xylene (mixed isomers)	760,707	14,996	3,055	778,758	10,093,268	31,724,126	24,271	400	1,098	378	136,171	41,979,711	42,758,469	578,083	43,336,552			
-- Lead compounds	288,518	256,744	2,576,697	3,121,959	213,780	540,224	62,604	93	23,106	5,103,837	10,041,136	15,984,780	19,106,739	16,921,737	36,028,476			
7664-93-9 Sulfuric acid	1,405,882	0	0	1,405,882	406,117	28,415,889	40	0	0	5	654	28,822,705	30,228,587	44,731	30,273,318			
75-15-0 Carbon disulfide	5,063	11	2,497	7,571	1,670,084	28,076,104	9,287	0	0	0	0	29,755,475	29,763,046	2,313	29,765,359			
78-93-3 Methyl ethyl ketone	227,273	531	3,459	231,263	10,739,385	15,946,865	97,901	0	33	1,938	6,897	26,793,019	27,024,282	437,463	27,461,745			
-- Glycol ethers	10,869	7,103	32,032	50,004	6,317,167	19,343,852	276,638	0	6,403	19	3,887	25,947,966	25,997,970	821,748	26,819,718			
74-85-1 Ethylene	729	0	6	735	11,594,622	14,327,886	1,706	0	0	0	5	25,924,219	25,924,954	673	25,925,627			
-- Chromium compounds	713,500	630,539	3,550,042	4,894,081	81,342	175,028	93,012	0	9,587	3,130,892	1,527,537	5,017,397	9,911,478	13,328,246	23,239,724			
463-58-1 Carbonyl sulfide	0	0	0	0	141,304	19,685,523	0	0	0	0	0	19,826,827	19,826,827	0	19,826,827			
7429-90-5 Aluminum (fume or dust)	5	13	5,676,423	5,676,441	246,535	1,124,699	12,368	0	0	0	4,456,929	5,840,530	11,516,971	8,116,989	19,633,961			

Note: This information does not indicate whether (or to what degree) the public has been exposed to toxic chemicals. Therefore, no conclusions on the potential risks can be made based solely on this information (including any ranking information). For more detailed information on this subject refer to *The Toxics Release Inventory (TRI) and Factors to Consider When Using TRI Data* document at www.epa.gov/tri/tridata/index.htm#pdr.

On-site Disposal or Other Releases include Underground Injection to Class I Wells (Section 5.4.1), RCRA Subtitle C Landfills (5.5.1A), Other Landfills (5.5.1B), Fugitive or Non-point Air Emissions (5.1), Stack or Point Air Emissions (5.2), Surface Water Discharges (5.3), Class II-V Wells (5.4.2), Land Treatment (5.5.2), Surface Impoundments (5.5.3) and Other Land Disposal (5.5.4). Off-site Disposal or Other Releases include from Section 6.2 Underground Injection (M71), RCRA Subtitle C Landfills (M65), Other Landfills (M64, M72), Storage Only (M10), Solidification/Stabilization - Metals and Metal Category Compounds only (M41 or M40), Wastewater Treatment (excluding POTWs) - Metals and Metal Category Compounds only (M62 or M61), Surface Impoundments (M63), Land Treatment (M73), Other Land Disposal (M79), Other Off-site Management (M90), Transfers to Waste Broker - Disposal (M94, M91), and Unknown (M99) and, from Section 6.1 Transfers to POTWs (metals and metal category compounds only).

Does not include Off-site Disposal or Other Releases transferred to other TRI facilities that reported the amounts as on-site disposal or other releases.

Facilities/forms are included in the manufacturing industry categories (SIC Codes 20-39) if they did not report a SIC code in the other industries. Forms that reported more than one 2-digit SIC code within the range 20 to 39 are assigned to the "multiple codes" category. Facilities/forms are included in the other industry categories if the facility/form has a SIC code in the other industries and no SIC code in 20-39. If the facility reported in any year prior to 1998 and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the manufacturing industry category. If the facility reported for the first time in 1998 or later and the facility/form has a combination of manufacturing and other industry SIC codes, then the facility/form is included in the other industry category. Forms with no 2-digit SIC code are included in the "no codes" category. One facility, Phelps Dodge Miami of Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 2002 and previous years have been included in SIC code 10 for the purpose of this analysis.

* Manufacturing industries include industries in SIC codes 20-39 and "no codes" category.